

Appendix 1

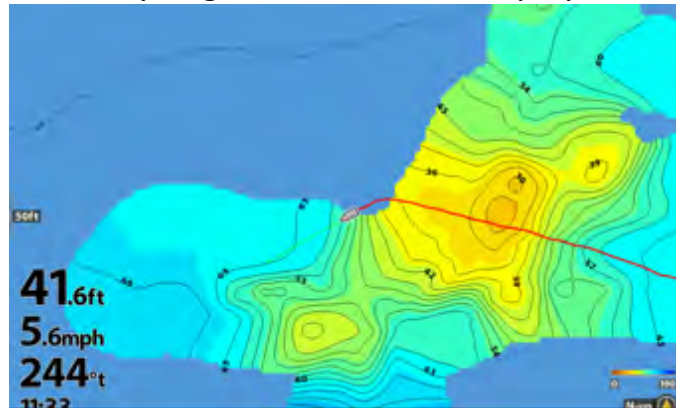
SONAR EMILY AUTOPILOT SETUP

Steps for autopilot use on Sonar EMILY

Note: Before operating Sonar EMILY in autopilot mode, install the Bluefruit app in your phone available in both Android and iPhone. This app will allow you to adjust the speed of the platform when it goes in autopilot mode.



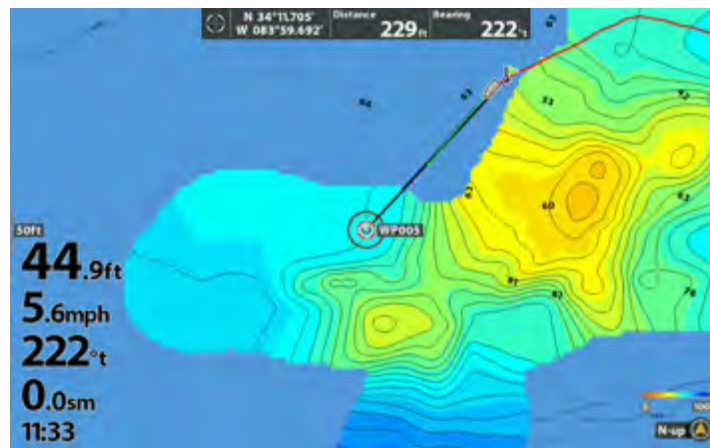
Step 1) Change the view in you ground station to display the “Chart View”



Step 2) Use the cursor located in the button panel to move the point of interest in the map to the desired location you want the boat to navigate to.

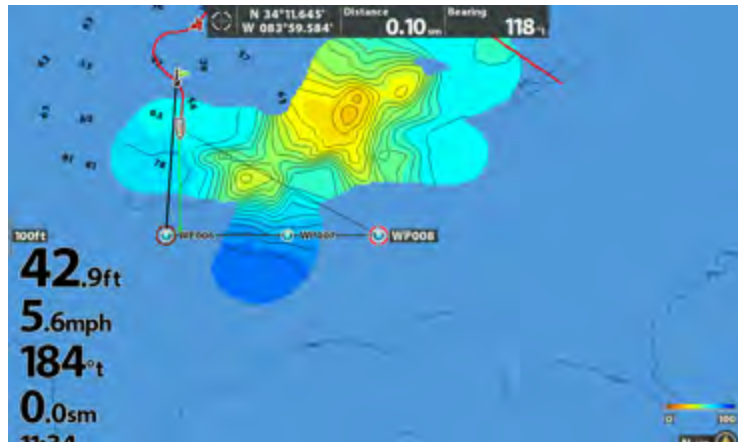


Step 3) Once you have identified your point of interest and placed the cursor on top of it, hit the “Go to” button once and select “Go to this waypoint”. If the command was successful, a black line starting at the boat’s current location terminating at the waypoint should appear.

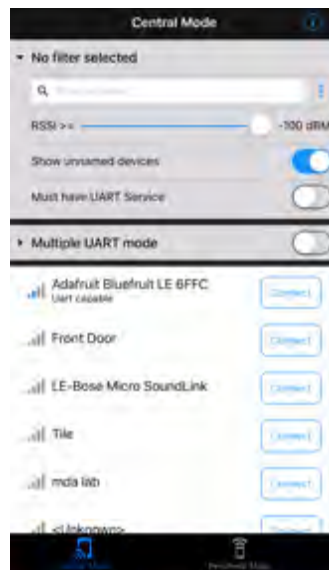


Step 4) If you desire to add more waypoints to your route, follow steps 2 and 3.

Step 5) Once you have selected all your waypoints with the “Go to” button, a black line similar to that of step 3 should connect all your current waypoint. If this is the case, turn off your transmitter.



Step 6) Open you Bluefruit app. In the bottom half of the screen the app will show all the Bluetooth devices available. Look for a device called “BluefruitLE” and click the “Connect” tap. If the device is not available, make sure your phone’s Bluetooth is turned on and you’re within 10-15 from the ground station.



Step 7) Once you have established a connection to the Bluetooth device, select the “UART” tap. This will take you to a new window that has two terminals. A send terminal that has a “send” tap located on the right and a blank terminal located on top.



Step 8) Use the blank terminal to send a throttle command. In order to change the throttle, tap on the send terminal and type in an integer between 0 to 100 corresponding to the percent throttle. EX. 50 will send a command to set speed to 50% throttle.



Note: When you send a throttle command of 50 in the send terminal, that same throttle will appear on the blank terminal with a message underneath “New Throttle 50”. This means that your throttle command has been accepted. Works with any integer between 0 to 100.